TENT COOPERATION TRE

PCT

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REC'D 1 0 DEC 2004

INTERNATIONAL PRELIMINARY EXAMINATION HEPORT (PCT Article 36_and Rule 70)

REC'd PCT/PTO 11 JAN 2005

Applicant's or agent's file reference FR920020011/GZ			FOR FURTHER ACT	ON See N	otification of Transmittal of International inary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/EP 03/08477			International filing date (day/month/year) 10.07.2003		Priority date (day/month/year) 11.07.2002			
Internati G06F3	3/023	ent Classification (IPC) or b	.l ooth national classification and	IPC				
		NAL BUSINESS MAC	CHINES CORPORATION					
1. Ti	his inter uthority	national preliminary exar and is transmitted to the	mination report has been po applicant according to Arti	epared by tole 36.	nis International Preliminary Examining			
2. Th	his REP	ORT consists of a total of	of 5 sheets, including this c	over sheet.				
⊠	bee		nied by ANNEXES, i.e. she basis for this report and/or s n 607 of the Administrative I		scription, claims and/or drawings which have ining rectifications made before this Authority			
Th		nexes consist of a total o			andor the 1 01).			
3. Th	nis repor	t contains indications rel	lating to the following items					
1	☒	Basis of the opinion						
ii		Priority	opinon					
Ш		•	on-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV		Lack of unity of invention		y, inventive	step and industrial applicability			
V		Reasoned statement u		gard to nove	elty, inventive step or industrial applicability;			
VI		Certain documents cited						
VII		Certain defects In the International application						
VII		Certain observations or	n the international application	n -	,			
Date of submission of the demand			Date	of completion	n of this report			
16.12.2003			30.	11.2004				
Name and mailing address of the international preliminary examining authority:				orized Office	Media Petateny.			
European Patent Office - Gitschiner Str. 103 D-10958 Berlin Tel. +49 30 25901 - 0 Fax: +49 30 25901 - 840				so Helgue				
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International application No.

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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages							
	1-15	5	as originally filed					
	Clai	ms, Numbers	THE SECOND SECON					
	1-10)	filed with telefax on 16.11.2004					
	Drawings, Sheets							
	1/9-	9/9 	as originally filed					
2.	2. With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is:							
☐ the language of a translation furnished for the purposes of the international search (under Rule 2								
☐ the language of publication of the international application (under Rule 48.3(b)).								
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
3.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 							
		contained in the inte	rnational application in written form.					
	ntly to this Authority in computer readable form.							
		in the international application as filed has been furnished.						
•		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	4. The amendments have resulted in the cancellation of:							
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 1-10 No: Claims Yes: Claims Inventive step (IS) 8-10 No: Claims 1-7 Industrial applicability (IA) Yes: Claims 1-10 No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US-A-5 892 502 (HILLER JEFFREY H) 6 April 1999 (1999-04-06)

D2: US-B-6 243 2581 (PARATORE ROBERT M) 5 June 2001 (2001-06-05)

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-7 does not involve an inventive step in the sense of Article 33(3) PCT.

The document D2 is regarded as being the closest prior art to the subject-matter of claims 1-7, and discloses (the references in parentheses applying to this document):

2.1. A peripheral device (2.4) connectable to a central processing unit (400) and to a main display (see column 5, line 17) of a data processing system (10) including a mechanical keyboard having a plurality of keys (4) for entering information into the data processing system when the keys are pressed, wherein the peripheral device further includes has a first surface (2) and a second surface (4) opposed to the first surface (see figure 3), the first surface carrying the mechanical keyboard (4) and the second surface carrying the a configurable unit (2), the configurable unit being separate from the main display (see column 5, line 17), wherein the mechanical keyboard is accessible to a user of the data processing system when the peripheral device is in a first operative position with the first surface turned upwards (see figure 2) and the configurable unit is accessible to the user when the peripheral device is in a second operative position with the second surface turned upwards (see figure 3). [claim 1]

The configurable unit includes a touch-screen (4) [claim 2].

The peripheral device further includes means for spacing the keys apart from a surface bearing the peripheral device in the second operative position (see column 4, lines 23-26). [claim 3]

The peripheral device further includes switching means for alternatively enabling

the mechanical keyboard or the configurable unit (see figure 5) [claim 4], the switching means including a sensor for detecting the position of the peripheral device, the mechanical keyboard being enabled when the peripheral device is in the first operative position and the configurable unit being enabled when the peripheral device is in the second operative position (see column 4, lines 27-42) [claim 5].

The peripheral device further includes means for displaying output information on the configurable unit (4) [claim 6].

A data processing system (10) including the peripheral device [claim 7].

2.2. The peripheral device of the application differs from that of D2 in that: the configurable unit displays a visual representation of a plurality of further keys for entering information into the data processing system when the further keys are selected.

This feature is well-known to the skilled person in the field of touch screens under the name of "virtual keyboard" (see for instance D1, abstract), and its inclusion in the device of D2 would be a normal design option.

Therefore, the subject-matter of claims 1-7 is not inventive (Article 33(3) PCT).

- 3. The combination of the features of dependent claims 8-10 is neither known from, nor rendered obvious by, the available prior art. The reasons are as follows:
- 3.1. No other document in the prior art discloses the use of a central unit and means for pivoting the peripheral device around the central unit and for sliding an internal edge of the peripheral device along the central unit between a first end of stroke and a second end of stroke, the peripheral device being folded down the central unit in the first operative position or in the second operative position when the internal edge is at the first end of stroke or at the second end of stroke, respectively, in order to solve the problem of the prior art document D2, in which it is difficult to fold the whole unit in order to change the operation mode when there are external devices attached to it [claim 8].
- 3.2. Claims 9,10 are dependent on claim 8 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

CLAIMS

1. A peripheral device (125) connectable to a central processing unit and to a main display (310) of a data processing system (100) including a mechanical keyboard (130) having a plurality of keys (135) for entering information into the data processing system when the keys are pressed,

characterized in that

the peripheral device has a first surface (210) and a second surface (215) opposed to the first surface, the first surface carrying the mechanical keyboard (130) and the second surface carrying a configurable unit (140) for displaying a visual representation of a plurality of further keys (145) entering information into the data processing system when the further keys are selected, the configurable unit separate from the main display (310), wherein the mechanical keyboard (130) is accessible to a user of the data processing system when the peripheral device is in a first operative position with the first surface (210) turned upwards and the configurable unit (140) is accessible to the user when the peripheral device is in a second operative position with the second surface (215) turned upwards.

- 2. The peripheral device (125) according to claim 1, wherein the configurable unit includes a touch-screen (140), the further keys being selected when touched.
- 3. The peripheral device (125) according to any preceding claim, further including means (225a,225b) for spacing the keys (135) apart from a surface (103) bearing the peripheral device in the second operative position.
- 4. The peripheral device (125) according to any preceding claim, further including switching means (500) for alternatively enabling the mechanical keyboard (130) or the configurable unit (140).

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- 5. The peripheral device (125) according to claim 4, wherein the switching means includes a sensor (500) for detecting the position of the peripheral device, the mechanical keyboard (130) being enabled when the peripheral device is in the first operative position and the configurable unit (140) being enabled when the peripheral device is in the second operative position.
- 6. The peripheral device (125) according to any preceding claim, further including means (150) for displaying output information on the configurable unit (140).
- 7. A data processing system (100;300) including the peripheral device (125;320) according to any preceding claim.
- 8. The data processing system (300) according to claim 7, further including a central unit (305) and means (340,345) for pivoting the peripheral device (320) around the central unit and for sliding an internal edge of the peripheral device along the central unit between a first end of stroke and a second end of stroke, the peripheral device being folded down the central unit in the first operative position or in the second operative position when the internal edge is at the first end of stroke or at the second end of stroke, respectively.
- 9. The data processing system (300) according to claim 8, further including latching means (350f,355t;350r,355k) for latching the peripheral device (320) in the first operative position or in the second operative position.
- 10. The data processing system (300) according to claim 9, wherein the latching means (350f,355t;350r,355k) includes first command means (405f) for unlatching the peripheral device (320) when in the first operative position, second command means (405r) for unlatching the peripheral device when

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in the second operative position, and means (360t,360k) for providing an indication identifying the first command means or the second command means when the peripheral device is in the first operative position or in the second operative position, respectively.

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AMENDED SHEET